Amendments to the claims:

1-28. (Cancelled).

29. (Currently amended) A transformed yeast strain comprising a nucleic acid polymer for encoding a polypeptide ordinarily exogenous to yeast under control of a yeast derived promoter, said nucleic acid polymer being selected from the group consisting of synthetic and natural nucleic acid polymers, said ~~the~~ nucleic acid polymer having a sequence that codes for expression of ~~one~~ two or more amino acid residues in a ratio that offsets a deficiency in ~~complements~~ a predetermined feed source for a target animal, the deficiency being that ~~where~~ the predetermined feed source presents amino acids in a ratio that is less than optimal for efficient use of protein for the growth and weight gain ~~is insufficient to meet optimum dietary needs~~ of the target animal ~~and the ratio is designed to offset the insufficiency when the transformed yeast strain is mixed in quantity with the predetermined feed source for consumption by the target animal~~.

30. (Currently amended) The transformed yeast strain of claim 29, wherein the expression of said polypeptide ~~whereby said strain~~ is inducible.

31. (Currently amended) The transformed yeast strain of claim 29, wherein ~~whereby~~ said nucleic acid polymer is inserted into said strain's chromosome ~~and said nucleic acid polymer is homozygous~~.

32. (Currently amended) The transformed yeast strain of claim 29, wherein ~~whereby~~ said polypeptide is held by said strain.

33. (Currently amended) The transformed yeast strain of claim 29, wherein ~~whereby~~ said strain is auxotrophic, but was non-auxotrophic prior to transformation.

34. (Currently amended) The transformed yeast strain of claim 29, wherein ~~whereby~~ said strain is selected from the group consisting of Saccharomyces cerevisiae, Pichia pastoris, P. stipidis, Yarrowia spp, Candida spp, Kluyveromyces waltii, K. lactis, K. drosophiliarium, Zygosaccharomyces spp, Schwannomyces occidentalis, Schizosaccharmyces pombe, Hansenula spp, and Torulaspora delbrueckii.

35. (Currently amended) The transformed yeast strain of claim 29, whereby said nucleic acid polymer when expressed produces a polypeptide comprising ~~comprised of 3~~ methionine, 6 histidine, 6 lysine, ~~2~~ threonine, ~~2~~ isoleucine, ~~1~~ valine, and ~~1~~ tryptophan residues in a ratio that is about 3 : 6 : 6 : 2 : 2 : 1 : 1.

36. (Currently amended) The transformed yeast strain of claim 29 wherein said promoter is selected from the group consisting of AOX 1, GAP, FLD1, PEx8, ~~YP71~~YPT1, and GAPDH.

37. (Currently amended) A construct for insertion into a host organism comprising a gene having a nucleic acid polymer for encoding a polypeptide ordinarily exogenous to said organism and a promoter, with said construct selected from the group consisting of plasmids, cosmids, phagemids, and artificial chromosomes, said ~~the~~ nucleic acid polymer having a sequence that codes for expression of two ~~one~~ or more amino acid residues in a ratio that offsets a deficiency in ~~complements~~ a predetermined feed source for a target animal, the deficiency being that ~~where~~ the predetermined feed source presents amino acids in a ratio that is less than optimal for efficient use of protein for the growth and weight gain ~~is insufficient to meet optimum dietary needs~~ of the target animal ~~and the ratio is designed to offset the insufficiency when the construct is used to transfect a transformed yeast strain that is then mixed in quantity with the predetermined feed source for consumption by the target animal~~.

38. (Original) The construct of claim 37 wherein said construct is a pRS316 plasmid with a GAPDH promoter.

39. (Currently amended) The construct of claim 37 wherein said ~~gene, when expressed, results in a~~ polypeptide ~~for poultry~~ comprising: ~~6~~ Lysine, ~~3~~ Methionine/Cysteine; ~~2~~ Threonine; ~~1~~ Valine; ~~2~~ Isoleucine; ~~6~~ histidine; and ~~1~~ Tryptophan amino acid residues in a ratio that is about 6 : 3 : 2 : 1 : 2 : 6 : 1.

40. (Currently amended) The construct of claim 37 wherein said ~~gene, when expressed, results in a~~ polypeptide ~~for Swine~~ comprising: ~~10~~ Lysine and ~~3~~ Methionine/Cysteine residues in a ratio that is about 10 : 3.

41. (Currently amended) The construct of claim 37 wherein said ~~gene, when expressed, results in a~~ polypeptide ~~for Dairy Beef~~ comprising: ~~10~~ Lysine; ~~2~~ Methionine/Cysteine; ~~10~~ Arginine; and ~~3~~ Histidine residues in a ratio that is about 10 : 2 : 10 : 3.

42. (Cancelled)

43. (Previously presented) A method for producing a yeast additive for use in animal feed comprising, inserting the construct of claim 37 into a yeast strain, expressing the gene in said construct to produce a peptide.